

Utah's Hemoglobinopathy IEF Screening Result Table

Hemoglobin IEF Results	Explanation	Clinical Manifestations	Recommendations
FA	Normal	None	None
AF	May be normal for age or Specimen was collected <i>after</i> blood transfusion was given	None	Repeat screen 90-120 days after last transfusion
FS (no A)	<i>Possible</i> Sickle Cell disease (Hb SS) or Sickle β^0 -thalassemia	Moderate to Severe	Education & genetic counseling With confirmation - Hematology
FSA	<i>Possible</i> Sickle Cell disease (Hb SS) or Sickle β^+ -thalassemia BLOOD TRANSFUSION GIVEN	Mild to Moderate	Education & genetic counseling With confirmation - Hematology Consultation
FAS	<i>Possible</i> Sickle cell trait (carrier)	Asymptomatic	Education & genetic counseling
FSC (no A)	<i>Possible</i> Sickle C disease (Hb SC)	Moderate to Severe	Education & genetic counseling With confirmation - Hematology
FC (no A)	<i>Possible</i> Hemoglobin C disease or Hemoglobin C β -thalassemia	Mild hemolytic anemia	Education & genetic counseling With confirmation - Hematology
FE (no A)	<i>Possible</i> Hemoglobin E disease or Hemoglobin E β^0 -thalassemia	Mild hemolytic anemia	Education & genetic counseling With confirmation - Hematology
FAC FAE FAD	<i>Possible</i> Hemoglobin C, E, or D trait (carrier)	None to mild anemia	Education & genetic counseling
FABARTS	<i>Possible</i> Silent alpha thalassemia carrier, Alpha thalassemia carrier, or Hb H disease	None to mild anemia	Education & genetic counseling- & CBC at 6 months. With abnormal CBC- Hematology Consultation
FAU (fast or slow)	Common, likely benign finding	None to mild anemia	Education, CBC and reticulocyte count at 2 months. With abnormal CBC- Hematology Consultation

Hemoglobin is reported in order of amounts found in blood (example: FSA = F>S>A).

Abbreviations: F = fetal hemoglobin S = sickle hemoglobin A = adult hemoglobin β = Beta